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Requester's Full Name: Art Unit: 1(72 Date: 7/5/03
Art Unit: 16 27 Phone Number 30 8 - 290 7 Serial V
Art Unit: 1677 Phone Number 30 8 - 3967 Serial Number: 09/676, 783 Mail Box and Bldg/Room Location: 21817 Results Format Preferred (circle): PAPER DISK E-MAIL
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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or stility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if snown. Please attach a copy of the cover sheet, pertinent claims, and abstract.
Title of Invention:
nventors (please provide full names):
arliest Priority Filing Date:
For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the propriects serial number.

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CTADE LICE ONLY			
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Searcher:	NA Sequence (#)		
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Searcher Location:	Structure (#)		
Date Searcher Picked Up:	Bibliographic		
Date Completed:	Litigation		
Searcher Prep & Review Time:	Fulltext		
Clerical Prep Time:	Patent Family		
Online Time:	Other	Other (specify)	

PTO-1590 (1-2000)

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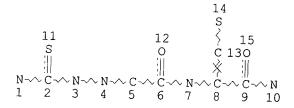
FILE COVERS 1907 - 23 Jul 2002 VOL 137 ISS 4 FILE LAST UPDATED: 22 Jul 2002 (20020722/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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NODE ATTRIBUTES:

NSPEC IS RC AT 8
NSPEC IS RC AT 13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

L3 27 SEA FILE=REGISTRY SSS FUL L1
L4 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

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ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:51893 HCAPLUS

DOCUMENT NUMBER:

136:123598

TITLE:

Production and use of novel peptide-based agents for

use with bi-specific antibodies

INVENTOR(S):

Hansen, Hans J.; Griffiths, Gary L.; Leung, Shui-on;

McBride, William J.; Qu, Zhengxing

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 37 pp., Cont.-in-part of U.S.

Ser. No. 337,756.

CODEN: USXXCO

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----_____ US 2002006379 A1 20020117 US 2001-823746 20010403 PRIORITY APPLN. INFO.: US 1998-90142P P 19980622 US 1998-104156P P 19981014 US 1999-337756 A2 19990622

The present invention relates to a bi-specific antibody or antibody AB fragment having at least one arm that is reactive against a targeted tissue and at least one other arm that is reactive against a linker moiety. The linker moiety encompasses a hapten to which antibodies have been prepd. The antigenic linker is conjugated to one or more therapeutic or diagnostic agents or enzymes. The invention provides constructs and methods for producing the bispecific antibodies or antibody fragments, as well as methods for using them.

391267-29-1P, IMP 243

RL: DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (peptide-based diagnostic and therapeutic agents for use with bi-specific antibodies)

ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER:

DOCUMENT NUMBER:

2000:769945 HCAPLUS 134:82801

TITLE:

Experimental Pretargeting Studies of Cancer with a

Humanized anti-CEA .mu.e Murine anti-[In-DTPA]

Bispecific Antibody Construct and a

99mTc-/188Re-Labeled Peptide

AUTHOR(S): Karacay, H.; McBride, W. J.; Griffiths, G. L.;

Sharkey, R. M.; Barbet, J.; Hansen, H. J.; Goldenberg,

D. M.

CORPORATE SOURCE:

SOURCE:

Immunomedics Inc., Morris Plains, NJ, USA Bioconjugate Chemistry (2000), 11(6), 842-854

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE: English

The aim of this study was to localize 99mTc and 188Re radionuclides to tumors, using a bispecific antibody (bsMAb) in a two-step approach where the radionuclides are attached to novel peptides incorporating moieties recognized by one arm of the bsMAb. A chem. cross-linked human/murine

bsMAb, hMN-14 .times. 734 (Fab' .times. Fab'), anti-carcinoembryonic antigen [CEA] .times. anti-indium-DTPA was prepd. as a prelude to constructing a fully humanized bsMAb for future clin. application. N,N'-o-Phenylenedimaleimide was used to cross-link the Fab' fragments of the two antibodies at their hinge regions. This construct was shown to be >92% pure and fully reactive with CEA and a divalent (indium) DTPA-peptide. For pretargeting purposes, a peptide, IMP-192 [Ac-Lys(In-DTPA)-Tyr-Lys(In-DTPA)-Lys(TscG-Cys-)-NH2 {TscG = 3-thiosemicarbazonylglyoxyl}], with two indium-DTPAs and a chelate for selectively binding 99mTc or 188Re, was synthesized. IMP-192 was formulated in a "single dose" kit and later radiolabeled with 99mTc (94-99%) at up to 1836 Ci/mmol and with 188Re (97%) at 459-945 Ci/mmol of peptide. [99mTc]IMP-192 was shown to be stable by extensive in vitro and in vivo testing and had no specific uptake in the tumor with minimal renal uptake. The biodistribution of the hMN-14 .times. murine 734 bsMAb was compared alone and in a pretargeting setting to a fully murine anti-CEA (F6) .times. 734 bsMAb that was reported previously. Both bsMAbs maintained their integrity and dual binding specificity in vivo, but the hMN-14 .times. m734 was cleared more rapidly from the blood. This coincided with an increased uptake of the hMN-14 .times. m734 bsMAb in the liver and spleen, suggesting an active reticuloendothelial cell recognition mechanism of this mixed species construct in naive mice. Animals bearing GW-39 human colonic cancer xenografts were injected with bsMAb $(15 \ .mu.g)$ and after allowing 24 or 72 h for the bsMAb constructs to clear from the blood (hMN-14 and murine F6 .times. 734, resp.), [188Re]IMP-192 (7 .mu.Ci) or [99mTc]IMP-192 (10 .mu.Ci) was injected at a bsMAb:peptide ratio of 10:1. Tumor uptake of [99mTc] or [188Re]IMP-192 was 12.6 .+-. 5.2 and 16.9 .+-. 5.5% ID/g at 3 h postinjection, resp. Tumor/nontumor ratios were between 5.6 and 23 to 1 for every major organ, indicating that early imaging with 99mTc will be possible. Radiation absorbed doses showed a 4.8-, 7.2-, and a 12.6 to 1.0 tumor to blood, kidney, and liver ratios when 188Re was used. Although this new bsMAb pretargeting approach requires further optimization, it already shows very promising targeting results for both radioimmunodetection and radioimmunotherapy of colorectal cancer. 318295-35-1DP, IMP 192, rhenium and technetium complexes

ΤТ RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(cancer targeting with anti-CEA anti-[In-DTPA] bispecific antibody and 99mTc-/188Re-labeled peptide)

REFERENCE COUNT: THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS 54 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:260078 HCAPLUS

DOCUMENT NUMBER: 132:284257

TITLE:

Site-specific labeling of disulfide-containing

targeting vectors

INVENTOR(S): McBride, William J.; Griffiths, Gary L.

PATENT ASSIGNEE(S): Immunomedics, Inc., USA SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ______

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WO 2000021573
                         A1
                               20000420
                                               WO 1999-US23614 19991013
           W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
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               JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
               KG, KZ, MD, RU, TJ, TM
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               CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
       AU 9964244
                         A1 20000501
                                          AU 1999-64244
                                                                19991013
       EP 1121153
                         A1
                              20010808
                                             EP 1999-951901
                                                                19991013
           R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO
 PRIORITY APPLN. INFO.:
                                           US 1998-103904P A2 19981013
                                           WO 1999-US23614 W 19991013
      A method of producing a diagnostic or therapeutic conjugate of a protein,
      polypeptide or peptide contg. at least one disulfide bond which is
      necessary to maintain its biol. activity, and bearing at least one
      thiol-contg. moiety linked thereto through a hydrazone or hydrazine
      linkage, is effected by contacting said protein, polypeptide or peptide
      with a thiol-reactive diagnostic or therapeutic agent, either preformed or
      generated in situ , to form a stable diagnostic or therapeutic conjugate
      of the protein, polypeptide or peptide without substantial cleavage of the
      disulfide bond. Diagnostic and therapeutic conjugates produced using the
      foregoing method, as well as kits for carrying out the method are
      provided. A peptide IMP 155 was conjugated to periodate oxidized LL2
      F(ab')2 fragment and this conjugate was labeled using Na99mTcO4.
      224446-85-9DP, conjugates with oxidized Fab fragment, complex with
      99mTc 264146-50-1DP, IMP 171, conjugates with oxidized Fab
      fragment, complex with Re-188 264146-51-2DP, IMP 162, conjugates
      with oxidized Fab fragment, complex with 99mTc
      RL: BPR (Biological process); BSU (Biological study, unclassified); RCT
      (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP
      (Preparation); PROC (Process); RACT (Reactant or reagent)
         (site-specific labeling of disulfide-contg. targeting vectors)
      224446-85-9P, IMP 155
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (site-specific labeling of disulfide-contg. targeting vectors)
REFERENCE COUNT:
                                 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                          1999:325973 HCAPLUS
DOCUMENT NUMBER:
                          130:336967
TITLE:
                          Glycosylated antibodies and antibody fragments having
                          reactive ketone groups
INVENTOR(S):
                          Leung, Shui-On; McBride, William J.; Qu, Zhengxing;
                          Hansen, Hans
PATENT ASSIGNEE(S):
                          Immunomedics, Inc., USA
SOURCE:
                          PCT Int. Appl., 32 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO. DATE
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WO 9924472 A2 19990520
WO 9924472 A3 19990805
                                                WO 1998-US23238 19981106
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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
                CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                        AA 19990520 CA 1998-2309320 19981106
       CA 2309320
       AU 9913729
                         A1
A2
                                19990531
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EP 1998-957482
                                                                    19981106
       EP 1028978
                                20000823
                                                                   19981106
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               IE, FI
       JP 2001522864
                                20011120
                                                JP 2000-520480
                                                                  19981106
 PRIORITY APPLN. INFO.:
                                             US 1997-64386P P 19971106
                                             WO 1998-US23238 W 19981106
      The authors disclose methods of making glycosylated antibodies or antibody
 AB
      fragments having reactive ketone groups within the saccharide residues.
      The method comprises transfecting a cell with a vector encoding an
      antibody having glycosylation sites engineered within the V.kappa. or CH1
      domains. Culture of the transfecting cells in medium contg. a ketone
      deriv. of a saccharide (e.g., N-levulinoyl fucose) or saccharide precursor
      (e.g., N-levulinoyl mannosamine) allows for biosynthetic incorporation of
      the reactive ketone saccharides within the engineered oligosaccharides.
      In addn., the authors disclose immunoconjugates prepd. from the
      glycosylated antibodies. In one example, the oligosaccharide of
      engineered ant-CD22 antibodies was conjugated to DTPA derivs. to prep.
      111In and 90Y chelates. In a second example, the oligosaccharide of
      engineered ant-CD22 antibodies was conjugated to doxorubicin.
      224446-81-5 224446-83-7 224446-85-9
      RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
      (Biological study); PROC (Process)
         (modification of glycosylated antibodies contg. saccharide residues
         with ketone functional group by)
     ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:66117
                                        HCAPLUS
DOCUMENT NUMBER:
                            128:154385
TITLE:
                           Preparation of radiometal-binding peptide analogs
INVENTOR(S):
                           McBride, William J.; Griffiths, Gary L.
PATENT ASSIGNEE(S):
                           Immunomedics, Inc., USA; McBride, William J.;
                           Griffiths, Gary L.
SOURCE:
                           PCT Int. Appl., 57 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                      KIND DATE
                                             APPLICATION NO. DATE
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     WO 9802192 A1 19980122
                                             WO 1997-US12084 19970711
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      CA 2259950
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                                               CA 1997-2259950 19970711
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      AU 725827
                         B2
                               20001019
      EP 975374
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                               20000202
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                                               JP 1998-506171
                                                                  19970711
PRIORITY APPLN. INFO.:
                                            US 1996-21662P P 19960712
                                            WO 1997-US12084 W 19970711
OTHER SOURCE(S):
                           MARPAT 128:154385
     Radiometal-binding peptide analogs R1R2NC(S)NR3NR4CR5R6CONHCR7(CR8R9SH)CON
     R10-peptide were prepd. Such peptide derivs. are readily labeled with
     radiometals, such as isotopes of rhenium or technetium, while retaining
     their ability to tightly bind specific peptide receptors. Thus, cyclic
     .alpha.-MSH analog MaGC.gamma.-AbuNleDHFdRWK-NH2 (Ma = mercaptoacetyl,
     subscript d indicates D isomer, the DHFRWK sequence is cyclized as a
     lactam through the aspartic acid and lysine side chains) was prepd. by the
     solid-phase method.
TΤ
     186350-70-9P 202526-64-5P 202526-66-7P
     202526-67-8P 202526-68-9P 202526-69-0P
     202526-70-3P 202526-71-4P 202526-73-6P
     202526-74-7P 202526-75-8P 202526-76-9P
     202526-77-0P 202526-78-1P 202526-79-2P
     202526-80-5P 202526-81-6P 202526-84-9P
     RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
         (prepn. of radiometal-binding peptide analogs)
     ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                          1997:119199 HCAPLUS
DOCUMENT NUMBER:
                           126:131780
TITLE:
                           Preparation of radiometal-binding analogs of
                           luteinizing hormone releasing hormone
INVENTOR(S):
                           Mcbride, William J.; Karacay, Habibe; Griffiths, Gary
                           L.
PATENT ASSIGNEE(S):
                           Immunomedics, Inc., USA
SOURCE:
                           PCT Int. Appl., 58 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                    KIND DATE
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                                             WO 9640756
                       A1 19961219 WO 1996-US8695 19960607
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    US 5753206
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AU 9661501
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PRIORITY APPLN. INFO.:
                                                            20000518
                                        US 1995-474555 A 19950607
                                       WO 1996-US8695
                                                        W 19960607
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OTHER SOURCE(S): MARPAT 126:131780

Peptide derivs. of LH-RH that are capable of binding radionuclides are provided. The peptide derivs. are readily labeled with isotopes of rhenium or technetium, while retaining their ability to tightly bind LH-RH receptors. Methods for prepg. the labeled peptides and their use in methods of radiodiagnosis and radiotherapy are described. Thus, pGlu-His-Trp-Ser-Tyr-Lys(HSCH2CO-Gly-Cys)-Leu-Arg-Pro-Gly-NH2 was prepd. by std. soldi-phase methods using 9-fluorenylmethoxycarbonyl (Fmoc) chem. and radiolabeled with Na99mTcO4 or Na188ReO4. Prepd. radiolabeled LH-RH analogs were tested for receptor binding in vitro and also evaluated for biodistribution in mice.

186350-66-3P 186350-70-9P ΤТ

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of LH-RH radiometal-binding analogs and their use in radiodiagnosis and radiotherapy)

186350-66-3DP, technetium-99m conjugates 186350-70-9DP,

technetium-99m conjugates

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of LH-RH radiometal-binding analogs and their use in

radiodiagnosis and radiotherapy)

ΙT 186350-76-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of LH-RH radiometal-binding analogs and their use in radiodiagnosis and radiotherapy)

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                          22 JUL 2002 HIGHEST RN 439790-45-1
 DICTIONARY FILE UPDATES: 22 JUL 2002 HIGHEST RN 439790-45-1
TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002
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   conducting SmartSELECT searches.
Crossover limits have been increased. See HELP CROSSOVER for details.
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf
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RN
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CN
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    STN Files:
                 CA, CAPLUS, TOXCENTER, USPATFULL
Absolute stereochemistry.
Double bond geometry unknown.
```

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:123598

ANSWER 2 OF 27 REGISTRY COPYRIGHT 2002 ACS L3

318295-35-1 REGISTRY RN

Indate(2-), [.mu.-[N2-acetyl-N6-[N-[2-[[2-[bis[(carboxy-CN

.kappa.O)methyl]amino-.kappa.N]ethyl][(carboxy-.kappa.O)methyl]amino-

.kappa.N]ethyl]-N-[(carboxy-.kappa.O)methyl]glycyl]-L-lysyl-L-tyrosyl-N6-

[N-[2-[[2-[bis[(carboxy-.kappa.O)methyl]amino-.kappa.N]ethyl][(carboxy-

.kappa.O)methyl]amino-.kappa.N]ethyl]-N-[(carboxy-.kappa.O)methyl]glycyl]-

L-lysyl-N6-[N-[[(aminothioxomethyl)hydrazono]acetyl]-L-cysteinyl]-L-

lysinamidato(8-)]]di-, dihydrogen (9CI) (CA INDEX NAME)

OTHER NAMES:

CN IMP 192

FS PROTEIN SEQUENCE

MF C63 H92 In2 N18 O26 S2 . 2 H

CI CCS

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

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-- NH- C-CH- (CH₂)₄-NH-C==0

● 2 H+

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:82801

L3 ANSWER 3 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 264146-51-2 REGISTRY

CN L-Cysteinamide, glycyl-L-.alpha.-aspartyl-D-.alpha.-aspartyl-N6-[N-[(aminothioxomethyl)) hydrazono]acetyl]-L-cysteinyl]-L-lysyl-L-phenylalanyl-D-cysteinyl-L-phenylalanyl-L-tryptophyl-D-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (6.fwdarw.11)-disulfide (9CI)

OTHER NAMES:

CN IMP 162

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C71 H99 N19 020 S4

SR CA

LC STN Files: CA, CAPLUS

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- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:284257

- L3 ANSWER 4 OF 27 REGISTRY COPYRIGHT 2002 ACS
- RN 264146-50-1 REGISTRY
- CN D-Lysinamide, N-(hydrazinoacetyl)-D-.alpha.-aspartyl-N6-[N-

[[(aminothioxomethyl)hydrazono]acetyl]-L-cysteinyl]-D-lysyl-D-.alpha.-aspartyl-D-lysyl-N6-[N-[[(aminothioxomethyl)hydrazono]acetyl]-L-cysteinyl]-D-lysyl-D-.alpha.-aspartyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN IMP 171

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C50 H86 N22 O18 S4

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

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—СО2Н

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HN NH2

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:284257

L3 ANSWER 5 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 224446-85-9 REGISTRY

CN D-Lysinamide, N-(hydrazinoacetyl)-D-.alpha.-aspartyl-N6-[N[[(aminothioxomethyl)hydrazono]acetyl]-L-cysteinyl]-D-lysyl-D-.alpha.aspartyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN IMP 155

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C28 H49 N13 O11 S2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry. Double bond geometry unknown.

$$H_2N$$
 $(CH_2)_4$
 R
 NH_2
 H_2N
 H_2N
 H_2N
 H_2N
 H_3N
 H_4
 H_4N
 H_4N

2 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:284257

REFERENCE 2: 130:336967

L3 ANSWER 6 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 224446-83-7 REGISTRY

L-Lysine, N6-[N2-acetyl-D-lysyl-D-.alpha.-aspartyl-N6-[N-[[2-CN (aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-D-lysyl-D-.alpha.aspartyl-D-lysyl]-, hydrazide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C40 H74 N16 O13 S2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:336967

L3 ANSWER 7 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 224446-81-5 REGISTRY

CN L-Lysine, N6-[N2-acetyl-D-lysyl-D-.alpha.-aspartyl-N6-[N-[[(aminothioxomethyl)hydrazono]acetyl]-L-cysteinyl]-D-lysyl-D-.alpha.aspartyl-D-lysyl]-, hydrazide (9CI) (CA INDEX NAME)

PROTEIN SEQUENCE; STEREOSEARCH FS

MFC40 H72 N16 O13 S2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry. Double bond geometry unknown.

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:336967

L3 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-84-9 REGISTRY

CN L-Lysinamide, D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-L-threonyl-N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-, cyclic (2.fwdarw.7)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C61 H87 N17 O13 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

$$\begin{array}{c|c} & \circ & s \\ || & & || \\ \circ & \text{NH-C-CH}_2\text{-NH-NH-C-NH}_2 \\ - & (\text{CH}_2)_4\text{-NH-C-CH-CH}_2\text{-SH} \end{array}$$

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-81-6 REGISTRY

CN L-Threonine, N2-acetyl-N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, hydrazide, cyclic (3.fwdarw.8)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C63 H90 N18 O14 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-80-5 REGISTRY

L-Threonine, N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-lysyl-L-alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, 11-hydrazide, cyclic (5.fwdarw.10)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C71 H105 N21 O17 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

ANSWER 11 OF 27 REGISTRY COPYRIGHT 2002 ACS L3

RN 202526-79-2 REGISTRY

L-.alpha.-Asparagine, N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-CNcysteinyl]-L-lysyl-L-.alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-Lphenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (4.fwdarw.9)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MFC65 H90 N18 O17 S4

SR CA

STN Files: CA, CAPLUS, USPATFULL LC

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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-78-1 REGISTRY

CN L-Threonine, N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (4.fwdarw.9)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C65 H91 N17 O17 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-77-0 REGISTRY

CN L-Threonine, N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-alpha.-aspartyl-L-seryl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (5.fwdarw.10)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C68 H96 N18 O19 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-76-9 REGISTRY

CN L-Cysteinamide, N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-D-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (4.fwdarw.9)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C65 H93 N17 O16 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

ANSWER 15 OF 27 REGISTRY COPYRIGHT 2002 ACS L3

RN 202526-75-8 REGISTRY

L-Threonine, N2-acetyl-N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-lysyl-L-alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-L-CN phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (5.fwdarw.10)-disulfide (9CI) (CA INDEX NAME)

PROTEIN SEQUENCE; STEREOSEARCH FS

MFC71 H103 N19 O18 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-74-7 REGISTRY

CN L-Cysteinamide, N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-lysyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (5.fwdarw.10)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C73 H112 N20 O15 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-73-6 REGISTRY

CN L-Threoninamide, N2-acetyl-N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (4.fwdarw.9)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C65 H92 N18 O16 S4

SR C

LC STN Files: CA, CAPLUS, USPATFULL

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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

ANSWER 18 OF 27 REGISTRY COPYRIGHT 2002 ACS

202526-71-4 REGISTRY RN

 $L-Cysteinamide, \ N2-acetyl-N6-[N-[[2-(aminothioxomethyl)) \\ hydrazino] \\ acetyl]-L-(aminothioxomethyl) \\ acetyl]-L-(amin$ CN cysteinyl]-L-lysyl-L-.alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-Lphenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-, cyclic (4.fwdarw.9)disulfide (9CI) (CA INDEX NAME) PROTEIN SEQUENCE; STEREOSEARCH

FS

MFC67 H95 N17 O17 S4

SR

LCSTN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 19 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-70-3 REGISTRY

CN L-Cysteinamide, N2-acetyl-N6-[N-[[2-[(methylamino)thioxomethyl]hydrazino]a cetyl]-L-cysteinyl]-L-lysyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (3.fwdarw.8)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C64 H92 N16 O14 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 20 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-69-0 REGISTRY

CN L-Cysteinamide, N2-acetyl-N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (3.fwdarw.8)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C63 H90 N16 O14 S4

SR CF

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 21 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-68-9 REGISTRY

L-Threonine, N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl-L-alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (4.fwdarw.9)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C59 H79 N15 O16 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 22 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-67-8 REGISTRY

CN L-Threonine, N2-acetyl-N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-alpha.-aspartyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (4.fwdarw.9)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C67 H93 N17 O18 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-66-7 REGISTRY

CN L-Threonine, N2-acetyl-N6-[N-[[2-(aminothioxomethyl)hydrazino]acetyl]-L-cysteinyl]-L-lysyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (3.fwdarw.8)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C63 H88 N16 O15 S4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-B

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 202526-64-5 REGISTRY

CN Luteinizing hormone-releasing factor I (Petromyzon marinus), 6-[N6-[N-[[2-[(phenylamino)thioxomethyl]hydrazino]acetyl]-L-cysteinyl]-L-lysine]- (9CI) (CA INDEX NAME)

PROTEIN SEQUENCE; STEREOSEARCH C71 H98 N20 O15 S2 FS

MF

SR

STN Files: LC CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PAGE 1-B

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

L3 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 186350-76-5 REGISTRY

CN D-Alaninamide, N-acetyl-3-(2-naphthalenyl)-D-alanyl-4-chloro-D-phenylalanyl-D-tryptophyl-L-seryl-L-arginyl-N6-[N-[[2-[(phenylamino)thioxomethyl]hydrazino]acetyl]-L-cysteinyl]-D-lysyl-L-leucyl-L-arginyl-L-prolyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C82 H112 Cl N23 O14 S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

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 \sim NH2

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:131780

L3 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 186350-70-9 REGISTRY

CN Glycinamide, 3-(2-naphthalenyl)-D-alanyl-4-chloro-D-phenylalanyl-D-tryptophyl-L-seryl-L-arginyl-N6-[N-[[2-[(phenylamino)thioxomethyl]hydrazino]acetyl]-L-cysteinyl]-D-lysyl-L-tryptophyl-L-lysyl-L-prolyl-(9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C84 H107 C1 N22 O13 S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

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2 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:154385

REFERENCE 2: 126:131780

L3 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 186350-66-3 REGISTRY

CN Glycinamide, 5-oxo-L-prolyl-L-histidyl-L-tyrosyl-L-seryl-L-tyrosyl-N6-[N-[[2-[(phenylamino)thioxomethyl]hydrazino]acetyl]-L-cysteinyl]-L-lysyl-L-tryptophyl-L-lysyl-L-prolyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C74 H96 N20 O16 S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

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- 1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:131780